

JUN 02 1980

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

Docket No.: 50-155

REGULATORY DOCKET FILE COPY

Mr. David P. Hoffman
Nuclear Licensing Administrator
Consumers Power Company
212 West Michigan Avenue
Jackson, Michigan 49201

Dear Sir:

The reorganization of the Office of Nuclear Reactor Regulation became effective on April 28, 1980, and as a result, licensing activities for the Big Rock Point Plant are being coordinated by Mr. Walt Paulson, who is your Project Manager. Mr. Paulson is now a member of Operating Reactors Branch #5, which is headed by Mr. Dennis M. Crutchfield

The new NRR organization is described in the attachment to this letter. There will be a necessary period of transition from the old responsibilities and interfaces to the new, but we intend to make the change with a minimum of disruption to ongoing activities. We hope that this reorganization will improve both our effectiveness and our lines of communication with licensees and other parties concerned with nuclear reactor regulation.

Should you have any questions concerning this new organization feel free to contact your Project Manager.

Sincerely,

Original signed by:

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Operating Reactors

DISTRIBUTION:	HSmith
Docket	WRussell
NRC PDR	TJCarter
Local PDR	OELD OI&E (3)
NRR Reading	RSchaffstall
TERA	ACRS
NSIC	
ORB#5 Reading	
DEisenhut	
GLainas	
DCrutchfield	
Project Manager	

Attachment:
As stated

cc w/enclosure:
See next page

8007030 335

OFFICE	ORB#5:DL	ORB#5		
SURNAME	RCaudo:dk	DCrutchfield		
DATE	5/10/80	5/10/80		



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUN 02 1980

Docket No. : 50-155

Mr. David P. Hoffinan
Nuclear Licensing Administrator
Consumers Power Company
212 West Michigan Avenue
Jackson, Michigan 49201

Dear Sir:

The reorganization of the Office of Nuclear Reactor Regulation became effective on April 28, 1980, and as a result, licensing activities for the Big Rock Point Plant are being coordinated by Mr. Walt Paulson, who is your Project Manager. Mr. Paulson is now a member of Operating Reactors Branch #5, which is headed by Mr. Dennis M. Crutchfield

The new NRR organization is described in the attachment to this letter. There will be a necessary period of transition from the old responsibilities and interfaces to the new, but we intend to make the change with a minimum of disruption to ongoing activities. We hope that this reorganization will improve both our effectiveness and our lines of communication with licensees and other parties concerned with nuclear reactor regulation.

Should you have any questions concerning this new organization feel free to contact your Project Manager.

Sincerely,

A handwritten signature in cursive script that reads "Dennis M. Crutchfield".

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Operating Reactors

Attachment:
As stated

cc w/enclosure:
See next page

Mr. David P. Hoffman

cc

Mr. Paul A. Perry, Secretary
Consumers Power Company
212 West Michigan Avenue
Jackson, Michigan 49201

Judd L. Bacon, Esquire
Consumers Power Company
212 West Michigan Avenue
Jackson, Michigan 49201

Joseph Gallo, Esquire
Isham, Lincoln & Beale
1120 Connecticut Avenue
Room 325
Washington, D. C. 20036

Peter W. Steketeer, Esquire
505 Peoples Building
Grand Rapids, Michigan 49503

Sheldon, Harmon and Weiss
1725 I Street, N. W.
Suite 506
Washington, D. C. 20006

Mr. John O'Neill, II
Route 2, Box 44
Maple City, Michigan 49664

Charlevoix Public Library
107 Clinton Street
Charlevoix, Michigan

Chairman
County Board of Supervisors
Charlevoix County
Charlevoix, Michigan 49720

Office of the Governor (2)
Room 1 - Capitol Building
Lansing, Michigan 48913

Director, Technical Assessment
Division
Office of Radiation Programs
(AW-459)
U. S. Environmental Protection
Agency
Crystal Mall #2
Arlington, Virginia 20460

U. S. Environmental Protection
Agency
Federal Activities Branch
Region V Office
ATTN: EIS COORDINATOR
230 South Dearborn Street
Chicago, Illinois 60604

Herbert Grossman, Esq., Chairman
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Oscar H. Paris
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. Frederick J. Shon
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Big Rock Point Nuclear Power Plant
ATTN: Mr. C. J. Hartman
Plant Superintendent
Charlevoix, Michigan 49720

Christa-Maria
Route 2, Box 108C
Charlevoix, Michigan 49720

William J. Scanlon, Esquire
2034 Pauline Boulevard
Ann Arbor, Michigan 48103

Office of Nuclear Reactor Regulation
Director
Harold R. Denton
Deputy Director
Edson G. Case

TMI Program Office
Program Director
Bernard J. Snyder
Deputy
Program Director
John T. Collins

Planning & Program
Analysis Staff
Director
Vacant

Emergency Preparedness Program Office
Program Director
Brian K. Grimes
Deputy Program Director
Vacant

Resource & Scheduling Branch
Frank J. Miraglia, Chief
Management Analysis Branch
Herbert N. Berkow, Chief
Technical Support Branch
William T. Russell, Chief

Emergency Preparedness Licensing Branch
Frank G. Pagano, Chief(Acting)
Emergency Preparedness Development Branch
Vacant

Division of Licensing

Division of
Engineering

Division of Systems
Integration

Division of Human
Factors Safety

Division of Safety
Technology

Division of Licensing
Director
Darrell G. Eisenhut
Deputy Director
Robert A. Purple

Assistant Director for Operating Reactors
Thomas M. Novak

- Operating Reactors Branch 1
Steven A. Varga, Chief
- Operating Reactors Branch 2
Thomas A. Ippolito, Chief
- Operating Reactors Branch 3
Robert A. Clark, Chief
- Operating Reactors Branch 4
Robert W. Reid, Chief

Assistant Director for Licensing
Robert L. Tedesco

- Licensing Branch 1
B. Joe Youngblood, Chief
- Licensing Branch 2
Albert Schwencer, Chief
- Licensing Branch 3
Vacant
- Standardization and Special Projects Branch
James R. Miller, Chief

Assistant Director for Safety Assessment
Gus C. Lainas

- Operating Reactors Branch 5
Dennis M. Crutchfield, Chief
- Systematic Evaluation Program Branch
Dennis M. Crutchfield, Chief (Acting)
- Operating Reactors Assessment Branch
Vacant

Division of Engineering

Director
Richard H. Vollmer

Assistant Director for Components
& Structures Engineering

James P. Knight

Mechanical Engineering Branch
Robert J. Bosnak, Chief

Structural Engineering Branch
Franz P. Schauer, Chief

Geosciences Branch
Robert E. Jackson, Chief

Hydrologic and Geotechnical
Engineering Branch
George E. Lear, Chief

Assistant Director for Materials &
Qualifications Engineering

Vincent S. Noonan

Materials Engineering Branch
Stefan S. Pawlicki, Chief

Chemical Engineering Branch
Victor Benaroya, Chief

Equipment Qualification Branch
Zoltan R. Rosztoczy, Chief

Quality Assurance Branch
Walter P. Haass, Chief

Assistant Director for Environmental
Technology

Daniel R. Muller

Environmental Engineering Branch
Ronald L. Ballard, Chief

Siting Analysis Branch
William H. Regan, Chief

Utility Finance Branch
Jerome D. Saltzman, Chief

Division of Systems Integration
Director
Denwood F. Ross

Assistant Director for
Plant Systems
Paul S. Check

- Instrumentation & Control Systems Branch
Rodney M. Satterfield, Chief
- Power Systems Branch
Faust Rosa, Chief
- Containment Systems Branch
Walter R. Butler, Chief
- Auxiliary Systems Branch
Olan D. Parr, Chief

Assistant Director for
Radiation Protection
William E. Kreger

- Accident Evaluation Branch
Robert W. Houston, Chief
- Radiological Assessment Branch
Thomas D. Murphy, Chief
- Effluent Treatment Systems Branch
William P. Gannill, Chief

Assistant Director for
Reactor Systems
Lester S. Rubenstein

- Reactor Systems Branch
Themis P. Speis, Chief
- Core Performance Branch
Vacant
- Systems Interaction Branch
John F. Stolz, Chief

Division of Human Factors Safety

Director
Stephen S. Hanauer

Deputy Director
Voss A. Moore (Acting)

Human Factors Engineering Branch
Vacant

Operator Licensing Branch
Paul F. Collins, Chief

Licensee Qualifications Branch
Domenic B. Vassallo, Chief

Procedures & Test Review Branch
Dennis L. Ziemann, Chief

Division of Safety Technology

Director
Roger J. Mattson

**Assistant Director for Generic
Projects**

Frank Schroeder

Generic Issues Branch
Karl Kniel, Chief

Licensing Guidance Branch
Donald J. Skovholt, Chief

Research & Standards Coordination Branch
George W. Knighton, Chief

Assistant Director for Technology

Malcolm L. Ernst

Safety Program Evaluation Branch
Robert L. Baer, Chief

Operating Experience Evaluation Branch
Carl H. Berlinger, Chief (Acting)

Reliability and Risk Assessment Branch
Sanford L. Israel, Chief (Acting)

DISTRIBUTION OF FUNCTIONS

A. THE DIRECTOR

1. Develops and administers regulations, policies, and procedures governing:
 - a. the licensing of manufacturing, production and utilization facilities other than those concerning fuel reprocessing plants and isotopic enrichment plants;
 - b. source, byproduct, and special nuclear material used or produced at such facilities; and
 - c. the licensing of operators of such facilities.
2. Reviews reactor safety aspects of proposed berthing of nuclear powered vessels.
3. Provides special assistance as required in matters involving facilities exempt from licensing and performs other functions required for implementation of the licensing program.

B. THE DEPUTY DIRECTOR

Assists the Director in the accomplishment of Office functions, and oversees direction of management activities related to the Office's assigned missions. During the absence of the Director, acts for the Director with full and complete responsibility for the activities of the Office.

C. THE PROGRAM DIRECTOR, TMI PROGRAM OFFICE

Provides overall direction of TMI-2 cleanup operations, including technical and management supervision of related NRC inspection, licensing, analysis, public information, and government relations actions on-site, in the Middletown office, and in the Washington, D.C. area. Manages and directs the preparation of the Programmatic Environmental Impact Statement and related assessments, including resources for in-house analyses or for contracts, scheduling, coordination with other agencies and with the public, and presentation of results. Coordinates all NRC activities relating to the cleanup which involve other Federal agencies, state and local governments, and groups or members of the public.

THE DEPUTY PROGRAM DIRECTOR, TMI PROGRAM OFFICE

Stationed at NRC's Middletown, Pennsylvania office. Assists the Program Manager in the accomplishment of Office duties, including direct supervision of inspection and licensing activities and local NRC personnel.

D. THE PROGRAM DIRECTOR, EMERGENCY PREPAREDNESS PROGRAM OFFICE

Responsible for directing and managing the evaluation of licensing actions related to emergency preparedness and the NRR effort to upgrade emergency preparedness at and around nuclear power plants. Provides liaison and coordination with the Federal Emergency Management Agency (FEMA) on matters of

interfaces, reviews and policy. Develops policy recommendations in relevant areas including criteria for program adequacy, action level criteria, staffing and equipment requirements, thyroid blocking and accident management and data interchange.

THE DEPUTY PROGRAM DIRECTOR, EMERGENCY PREPAREDNESS PROGRAM OFFICE
Assists the Program Director in the accomplishment of Office functions and acts for the Director in his absence.

The Emergency Preparedness Licensing Branch reviews and evaluates emergency plans associated with the applications for nuclear reactor facilities; reviews emergency preparedness evaluations of state and local emergency plans performed by FEMA; coordinates the reviews of emergency preparedness areas under joint consideration by NRC and FEMA.

The Emergency Preparedness Development Branch develops and evaluates policy recommendations and regulatory requirements for emergency preparedness; develops evaluation criteria for use in licensing; identifies needs for relevant guides and standards; provides liaison with other NRC offices, agencies and foreign groups on emergency preparedness programs; coordinates with FEMA in development of criteria for onsite and off-site emergency preparedness; provides technical support for the Emergency Preparedness Licensing Branch.

E. THE DIRECTOR, PLANNING & PROGRAM ANALYSIS STAFF

Provides administrative management and coordination of the programs and resources of the Office. Establishes priorities, schedules and resource allocations; establishes interdisciplinary teams and task forces from the divisions; performs resource forecasting, long and short-range program planning, budget preparation and coordination, resource control and performance auditing, fiscal analysis, management and control. Provides administrative and management support including personnel management, management studies, management directives, personnel development and training, correspondence and action item control; provides technical assistance and support in special and diversified licensing-related projects and improvements to the licensing program.

The Director, Planning & Program Analysis Staff, is delegated the authorities defined in Chapter NRC-0123, Subsections 028 and 029.

The Resources and Scheduling Branch: develops and maintains data and records on priorities, schedules and assignments of NRR resources and of the status of all projects and tasks; performs long and short-range program planning, resource forecasting, budget preparation and coordination, manpower and program support resource management, auditing of performance against established goals and objectives.

The Management Analysis Branch: manages all personnel administration matters; performs management and organizational studies and prepares proposals thereon; recommends, prepares and reviews management and administrative operating procedures, policies and directives; implements procedures for fiscal control of all program support and travel resources; develops and implements procedures and models for analyzing and presenting NRR staff and program support expenditures; manages the personnel development and training function; controls and coordinates correspondence, FOIA requests, action items and records management.

The Technical Support Branch: provides technical coordination and oversight for resolution of special technical problems and those which involve more than one division and other offices; provides technical assistance to the Director of NRR; serves as the staff interface with the ACRS; recommends and develops improvements to the licensing program; provides overall review, coordination, allocation and management of the NRR technical assistance program including development of procedures for resource control; establishes and coordinates Office procedures for contracting and interagency agreements; responds to correspondence and Commission actions of a general nature; prepares and coordinates NRR inputs to the NRC Annual Report.

F. THE DIRECTOR, DIVISION OF LICENSING

Directs and administers the licensing process for all utilization and production facilities, other than fuel reprocessing and isotopic enrichment plants, including safety and environmental evaluations of power and non-power reactors required to be licensed and facilities licensed for operation. Directs the evaluations of design, operation and modification of DOE-and DOD-owned facilities exempt from licensing, as requested. Directs and supervises the processing of applications and petitions for license amendments for all licensed reactor facilities. Develops related policies, procedures and programs and assures proper implementation. Issues, denies and amends all limited work authorizations, permits and licenses for power and non-power reactors. Serves as NRR coordination with the Office of Inspection and Enforcement.

The Director, Division of Licensing, is delegated the authorities defined in Chapter NRC-0123, Subsections 021a, 022, 023, 025, 026, 0210, 0212, 032a, 032c, 033a, 033c, 034, 035, 038, 039, 0310, 0311 abd 0313.

THE DEPUTY DIRECTOR, DIVISION OF LICENSING

Assists the Director in the accomplishment of Division functions and acts for the Director in his absence.

1. The Assistant Director for Operating Reactors plans and directs the safety and environmental reviews of licensed operating power reactors and the review of proposed amendments to operating licenses. Supervises the programs and activities of the Operating Reactors Branches. Assists the Director in administering the Division's programs.
 - a. The Operating Reactors Branches 1-4 perform the overall safety and environmental project management for assigned licensed operating power reactors, including review of technical and procedural aspects involving proposed amendments to operating licenses.

2. The Assistant Director for Licensing plans and directs the program for safety and environmental review and evaluation of applications for limited work authorizations, construction permits, operating licenses, preliminary and final standard design approvals, early site approvals and topical report approvals. Evaluates design, operation and modification of test, research and critical facilities, Naval reactors, DOE- and DOD-owned facilities exempt from licensing, and advanced reactor concepts. Supervises the programs and activities of the Licensing and Standardization & Special Projects Branches. Assists the Director in administering the Division's programs.

- a. The Licensing Branches 1-3 perform the overall safety and environmental project management for assigned power reactor limited work authorization, construction permit and operating license applications.

- b. The Standardization and Special Projects Branch performs the overall safety and environmental project management for assigned preliminary and final standard design approval, early site approval, topical report approval, research and test reactor and critical facility applications. Performs similar functions for Naval reactors, advanced reactor concepts and DOE- and DOD-owned facilities exempt from licensing. Provides the NRR interface and coordination with NMSS on reactor safeguards matters; conducts porting reviews of nuclear-powered vessels.

3. The Assistant Director for Safety Assessment plans and directs the safety and environmental reviews of licensed operating power reactors undergoing systematic re-review and the technical evaluation of proposed routine operating license amendments. Supervises the programs and activities of the Operating Reactors Branch 5, the Systematic Evaluation Program Branch and the Operating Reactors Assessment Branch. Assists the Director in administering the Division's programs.

- a. The Operating Reactors Branch 5 performs overall coordination and routine project management including safety, environmental and procedural aspects, as well as proposed amendments for those operating power reactors which are under re-review as part of NRC's program to systematically evaluate the margins of safety of the design and operation with respect to current licensing requirements.

- b. The Systematic Evaluation Program Branch provides the overall coordination and task management functions, for the review areas related directly to SEP matters, for those operating power reactors which are under re-review as part of NRC's SEP program. Also, coordinates the efforts of those technical specialists from other divisions assigned to the SEP program.

- c. The Operating Reactors Assessment Branch provides interdisciplinary full-time dedicated technical support to operating reactors projects in the processing of relatively routine, short-duration licensing actions. Also, provides rapid initial evaluation of unanticipated events and defines needed support from the other NRR divisions.

G. THE DIRECTOR, DIVISION OF ENGINEERING

Directs and administers the detailed evaluation, in the safety engineering and environmental disciplines, for power and non-power reactor applications, for reactor facilities licensed for operation and for DOE- and DOD-owned facilities exempt from licensing; develops and administers related safety and environmental programs and policies governing the licensing and operation of nuclear reactors.

The Director, Division of Engineering, is delegated the authorities defined in Chapter NRC-0123, Subsections 021a, 022, 023, 024, 025, 026, 036, 037, and 0311.

1. The Assistant Director for Components and Structures Engineering plans, directs and supervises the programs and activities of the Mechanical Engineering, Structural Engineering, Geosciences and Hydrologic & Geotechnical Engineering Branches. Assists the Director in administering the Division's programs.
 - a. The Mechanical Engineering Branch reviews and evaluates seismic and pipe whip design; mechanical design of reactor vessels, reactor core supports, reactor fuel components, reactor coolant pumps, steam generators, reactor coolant piping, pressurizers, component supports and other safety-related mechanical components; missile impacts.

- b. The Structural Engineering Branch reviews and evaluates missile protection, design and loadings of concrete and steel containments and design of other safety-related plant structures; performs technical review, analysis, and evaluation of the design, construction and operation of reactor and related structures.

- c. The Geosciences Branch performs the technical review and evaluation of the acceptability of proposed and operational nuclear reactor sites with respect to the seismological, and geological aspects of the site; directs the analytical effort of consultants and assesses their input in the preparation of site safety evaluations; identifies areas in which appropriate earth science methodology needs further research and development and assists in developing programs to fill these needs.

- d. The Hydrologic and Geotechnical Engineering Branch performs the technical review and evaluation of the acceptability of proposed and operational nuclear reactor sites with respect to the hydrologic and coastal engineering characteristics of those sites; reviews and evaluates the geotechnical engineering aspects of the safety of supports for structures and earth structures; directs the analytical effort of consultants and assesses their input in the preparation of site safety and environmental evaluations; identifies areas in which the hydrologic and geotechnical methodologies need further research and development and assists in developing programs to fill these needs.

2. The Assistant Director for Materials & Qualifications

Engineering plans, directs and supervises the programs and activities of the Materials Engineering, Chemical Engineering, Equipment Qualification and Quality Assurance Branches.

Assists the Director in administering the Division's programs.

- a. The Materials Engineering Branch evaluates the materials-related design and performance of components and systems important to safety; performs general technical review, analysis and evaluation of the materials, fabrication, inspection and testing of nuclear power reactor components and systems.
- b. The Chemical Engineering Branch evaluates the chemical and process-related design and performance of effluent control and plant auxiliary systems, and the systems and administrative controls for fire protection at operating plants and plants under review; performs general technical review, analysis and evaluation of water chemistry management, activity cleanup and removal systems and process control systems.
- c. The Equipment Qualification Branch evaluates the capability of plant systems and components important to safety to function acceptably under all anticipated normal and accident environments including normal, pressure, moisture, radiation, dynamic and seismic; establishes performance requirements and reviews qualification test programs and results.

- d. The Quality Assurance Branch reviews reactor license applications and operating license amendments to assure compliance with Commission quality assurance criteria during plant design, construction and operation.
3. The Assistant Director for Environmental Technology plans, directs and supervises the programs and activities of the Environmental Engineering, Siting Analysis and Utility Finance Branches. Assists the Director in administering the Division's programs.
- a. The Environmental Engineering Branch provides specialized technical capabilities in the areas of water quality engineering, aquatic and terrestrial ecology, and land use assessments; interfaces with other NRC divisions and Federal, and State agencies in the resolution of generic and case-related environmental issues; prepares the facility environmental technical specifications portion of each new facility operating license. Provides NEPA coordination with the Council on Environmental Quality; coordinates NRR responsibility for reviewing other agency impact statements and serves as NRR focal point for NEPA-related matters and responsibilities.

- b. The Siting Analysis Branch evaluates risks associated with nearby industrial, transportation and military facilities; performs demographic and other site characteristic studies; develops criteria for and performs evaluations of suitability of proposed and alternate sites from the standpoint of population and land use; provides specialized technical capabilities in the areas of local and regional socio-economic impacts of nuclear power plants.

- c. The Utility Finance Branch establishes and administers those delegated NRC functions required to implement antitrust reviews of license applications for nuclear facilities, including responsibility for compliance with license conditions pertaining to antitrust matters, and those functions related to indemnification of licensees against public liability claims arising out of nuclear incidents; reviews, investigates and evaluates power supply, inter-system coordination and existing and potential anti-competitive activities by applicants; prepares relevant testimony; provides technical assistance on economic, engineering and power supply aspects of antitrust cases; assists in formulation of antitrust policies and guidance; reviews financial qualifications of applicants and licensees and specifies license conditions to assure utility commitments for construction and operation of nuclear reactors; provides specialized technical capabilities in evaluation of the benefits and costs of nuclear power plants and need for power.

The Chief, Utility Finance Branch, is delegated the authority contained in Chapter NRC-0123, Subsections 024, 036 and 037.

H. THE DIRECTOR, DIVISION OF SYSTEMS INTEGRATION

Directs and administers the detailed evaluations in the nuclear system performance-oriented disciplines for power and non-power reactor applications, for reactor facilities licensed for operation, for advanced reactor concepts and for DOE- and DOD-owned facilities exempt from licensing; develops and administers related safety programs and policies governing the licensing and operation of nuclear reactors.

The Director, Division of Systems Integration, is delegated the authorities defined in Chapter NRC-0123, Subsections 021a, 022, 023, 025, 026, and 0311.

1. The Assistant Director for Plant Systems plans, directs and supervises the programs and activities of the Instrumentation & Control Systems, Power Systems, Containment Systems and Auxiliary Systems Branches and assists the Director in administering the Division's programs.
 - a. The Instrumentation and Control Systems Branch reviews and evaluates the design, fabrication, and operation of reactor protection and safety instrumentation, and control instrumentation; and participates in the development of guides and regulations pertaining to instrumentation and control systems.
 - b. The Power Systems Branch reviews the design, fabrication and operation of onsite and offsite electrical power systems and the steam and power conversion systems; participates in the development of guides and regulations pertaining to these systems.
 - c. The Containment Systems Branch reviews the design, fabrication and operation of the containment system and associated subsystems, including emergency heat removal systems, heating and ventilation, isolation equipment and controls, and combustible gas control systems.

- d. The Auxiliary Systems Branch reviews the design, fabrication and operation of auxiliary systems.
2. The Assistant Director for Radiation Protection plans, directs and supervises the programs and activities of the Accident Evaluation, Radiological Assessment and Effluent Treatment Systems Branches and assists the Director in administering the Division's programs.
 - a. The Accident Evaluation Branch develops models for and performs calculations and evaluations of potential accidents and event scenerios from initiation through consequence mitigation for both safety and environmental evaluations; reviews reactor license and amendment applications, as well as operating data, to evaluate engineered safety features with respect to mitigation of offsite dose consequences and habitability aspects of control room design and site meteorology.
 - b. The Radiological Assessment Branch reviews reactor license and amendment applications, as well as operating data, to evaluate the radiological impact of facility operation on man and the environment, and the adequacy of the radiation protection program for the plant work force; develops analytical models, assumptions, acceptance criteria and calculational methods to conduct these reviews.

- c. The Effluent Treatment Systems Branch reviews reactor license applications and amendments, as well as operating data, to evaluate nuclear reactor radioactive waste treatment and management systems, radioactive effluent control and monitoring systems; develops analytical models, assumptions and calculational methods for evaluating the effectiveness of proposed systems; carries out reviews, studies and analyses related to these reviews and development of radioactive waste standards.

3. The Assistant Director for Reactor Systems plans, directs and supervises the programs and activities of the Reactor Systems, Core Performance and Systems Interaction Branches and assists the Director in administering the Division's programs.
 - a. The Reactor Systems Branch reviews and evaluates the design and performance of reactor thermal-hydraulic systems, reactor coolant systems, emergency core cooling systems and associated auxiliary systems; reviews, analyzes and evaluates calculational methods used by applicants and licensees in these areas; develops and uses independent calculational methods for analyzing performance of these systems under steady-state, transient and accident conditions; reviews, analyzes and evaluates the effects of severe accidents, including core degradation and melt accidents, on reactor designs; evaluates means for mitigating the effects of such accidents.

- b. The Core Performance Branch reviews and evaluates the nuclear, thermal, hydraulic and reactor fuel aspects of nuclear reactor design and performance reviews, analyzes and evaluates calculational methods used by applicants in these areas; develops and uses independent calculational methods for evaluating these aspects of reactor design and operation under a spectrum of normal and off-normal conditions.

- c. The Systems Interaction Branch performs systems engineering evaluations of overall plant design and performance, including integration among major systems, multiple failures and impacts of common cause failures on systems, both safety and non-safety; develops methodologies to conduct such evaluations; coordinates among all technical review activities to achieve an overall system level, integrated review which assures adequacy of overall design and performance, particularly across system interfaces and the man-machine interface; evaluates ability of all systems and equipment essential to safety to function reliably under all potential environments; makes recommendations regarding changes needed to regulatory guidance to correct significant safety concerns developed from systems interaction evaluations.

I. THE DIRECTOR, DIVISION OF HUMAN FACTORS SAFETY

Directs and administers evaluations in the operational, administrative and people-oriented disciplines for nuclear reactor applications and for reactor facilities licensed for operation; develops and administers related programs, policies and procedures governing these aspects of the licensing and operation of nuclear reactors.

The Director, Division of Human Factors Safety, is delegated the authorities defined in Chapter NRC-0123, Subsections 021, 022, 032b and 033b.

THE DEPUTY DIRECTOR, DIVISION OF HUMAN FACTORS SAFETY

Assists the Director in the accomplishment of Division functions and acts for the Director in his absence.

1. The Human Factors Engineering Branch performs multi-disciplined reviews and evaluations of the interaction of systems and equipment with humans in the design and operation of nuclear reactors; reviews and evaluates the type, quality and quantity of critical process and safety parameter information provided to control room operators; evaluates information and control systems such as display panels and computerized diagnostic systems; participates in the development of guides and regulations pertaining to human factors engineering.

2. The Operator Licensing Branch prepares, administers and grades licensing examinations for reactor operators and senior operators, certification examinations and annual requalification examinations; develops testing techniques and standards for evaluating candidates in coordination with the Licensee Qualifications Branch; accredits training programs and facilities and audits operator training programs on simulators.
3. The Licensee Qualifications Branch establishes requirements and qualifications standards for licensee management, licensed operators and other plant personnel; reviews and evaluates the technical and managerial qualifications for constructing and operating the plant and handling accidents; evaluates the qualifications and training of all utility and key plant personnel including licensed operators; coordinates with the Operator Licensing Branch.
4. The Procedures & Test Review Branch reviews and evaluates selected preoperational, startup, operational and emergency operating procedures with respect to design, engineering and operational aspects; evaluates results of significant tests to assure conformance with design and operational requirements; develops guidance on format and content of test procedures and reports.

J. THE DIRECTOR, DIVISION OF SAFETY TECHNOLOGY

Directs and administers the Office programs to assure that the Commission's basic safety and environmental policies, goals and requirements are satisfied by the regulatory process.

The Director, Division of Safety Technology, is delegated the authorities defined in Chapter NRC-0123, Subsections 022, 027, 0211 and 0312.

1. The Assistant Director for Generic Projects plans, directs and supervises the programs and activities of the Generic Issues, Licensing Guidance, and Research & Standards Coordination Branches and assists the Director in administering the Division's programs.
 - a. The Generic Issues Branch provides full-time dedicated task management of active unresolved safety issues and monitors activities on other generic issues; prepares an annual report of the status of unresolved safety issues for inclusion in an Annual Report to Congress; develops procedures for feedback of generic issue solutions and approaches into the regulatory process; prepares and issues NUREG reports describing the staff's evaluation of and conclusions for each issue; establishes plans and schedules for implementing solutions on a plant-by-plant basis;

coordinates and monitors the resolution of ACRS generic issues; coordinates and monitors implementation of the TMI Action Plan and evaluates the results of studies performed in accordance with the Plan; coordinates preparation of the NRR input to the NRC Annual Report to the President's Nuclear Safety Oversight Committee.

- b. The Licensing Guidance Branch maintains and updates the standard technical specifications for operating light water power reactors based on new regulatory requirements, new technical considerations and operating experience; provides guidance and support to project managers in preparation of the safety technical specifications portion of each new operating license; ensures that custom technical specifications, including changes to technical specifications for operating plants, are maintained consistent with standard technical specifications; coordinates updates to the Standard Review Plans and the Standard Format and Content Guide; develops standardized requirements for documentation of the staff's licensing bases in Safety Evaluation Reports.

- c. The Research and Standards Coordination Branch provides coordination and cooperation with the Office of Nuclear Regulatory Research (RES) in areas of mutual interest to assure that RES programs are supporting reactor licensing needs; reviews all Research Information Letters and coordinates NRR responses; assures that all NRC research reports are reviewed by the NRR staff so that research program results are properly disseminated, evaluated and applied as appropriate throughout the NRR reactor licensing program; coordinates review of the technical substance of NRR technical assistance contracts for consistency and to avoid duplication internally or with RES programs; monitors participation of NRR staff in Research Review Groups; screens all incoming NRR contractor reports and other documentation to highlight items needing prompt attention; coordinates with the Department of Energy and industry groups in areas of mutual interest; identifies NRR issues for Office of Standards Development (OSD) task initiation; reviews OSD issuances and coordinates NRR responses.

2. The Assistant Director for Technology plans, directs and supervises the programs and activities of the Safety Program Evaluation, Operating Experience Evaluation, and Reliability & Risk Assessment Branches and assists the Director in administering the Division's programs.
 - a. The Safety Program Evaluation Branch performs a continuing systematic evaluation of the adequacy of regulatory requirements for licensing and operation; provides a technical oversight and quality assurance function for reactor safety policy implementation, major licensing and other regulatory actions and their documentation; performs analyses of relevant new information; establishes, maintains and applies a system for assessing safety significance and assignment of priorities for the resolution of new safety issues; provides engineering analyses and support for recommendations by the Division to the Office Director on the value and impact of new regulatory requirements.

- b. The Operating Experience Evaluation Branch performs continuing systematic assessments of reactor operating experience, including occasional field audits, with respect to facility performance and operational safety, to detect patterns in abnormal occurrences, to identify precursors of possible hazardous events and to evaluate the adequacy of existing safety factors in design and operation; performs analysis of other significant events for purposes of identifying significant unreviewed safety questions; establishes requirements for reporting operating events; defines programs to rectify problems and improve performance and safety; provides NRR interface with the Office for Analysis and Evaluation of Operational Data and coordinates with the Office of Inspection and Enforcement on matters involving operating experience evaluation by NRC and the industry.
- c. The Reliability and Risk Assessment Branch performs systematic reliability and risk assessments of nuclear power plants and their systems important to safety, with principal emphasis on new or potential safety issues; fosters the development and coordinates the use of system